

Summary of selected water-quality data from ground-water samples collected from February 1995 through December 2013 as a part of the *Equus* Beds Ground-Water Recharge Project.

[mg/L, milligrams per liter; DWA, drinking water advisory; SDWR, secondary drinking water regulation; <, less than; MCL, maximum contaminant level; µg/L, micrograms per liter; cols/100 mL, colonies per 100 milliliters; MCLG, maximum contaminant level goal]

Areal Assessment Index Wells (Deep Monitoring Wells)

Wells: IW-01C through IW-38C

Compound or fecal indicator bacteria	Water-quality criteria	Number of Samples	Minimum	Maximum	Mean	Median	Percentage of Samples Detected	Percentage of Samples Exceeding Criteria	Percentage of Replicate Samples Exceeding Criteria
Sodium, dissolved (mg/L)	20 mg/L (DWA) ^a	613	16.9	409.0	93.4	82.8	100.0	95.9	97.7
Sulfate, dissolved (mg/L)	250 mg/L (SDWR) ^a	604	5.0	717.9	109.3	68.9	98.0	13.1	11.6
Chloride, dissolved (mg/L)	250 mg/L (SDWR) ^a	607	2.5	1458.0	115.507*	*65.000	94.2	7.4	31.4
Nitrite plus nitrate as nitrogen, dissolved (mg/L)	10 mg/L (MCL) ^a	613	0.0	11.3	0.458*	*0.028	49.8	0.2	3.3
Arsenic, dissolved (µg/L)	10 µg/L (MCL) ^a	602	0.3	23.9	7.462*	*5.880	85.4	34.6	25.0
Iron, dissolved (µg/L)	300 µg/L (SDWR) ^a	613	0.1	17900.0	1437.559*	*119.000	62.8	44.7	41.9
Manganese, dissolved (µg/L)	50 µg/L (SDWR) ^a	613	0.1	1480.0	432.9	307.0	98.4	91.7	73.3
Total coliform bacteria (cols/100 mL)	0 cols/100 mL (MCLG) ^a	443	0.5	84.0	1.161*	*0.031	12.4	12.4	0.0
Fecal coliform bacteria ^c (cols/100 mL)	200 cols/100mL (MCLG) ^d	501	0.5	39.0	0.6	0.5	1.2	0.0	0.0
	2,000 cols/100mL (MCLG) ^d	106	0.5	21.0	0.8	0.5	3.8	0.0	0.0
<i>Escherichia coli</i> ^e (cols/100 mL)	262 cols/100mL (MCLG) ^f	135	0.5	0.5	0.5	0.5	0.0	0.0	0.0
	2,358 cols/100mL (MCLG) ^f	19	0.5	0.5	0.5	0.5	0.0	0.0	0.0
Atrazine herbicide	3 µg/L as an annual average ^a (MCL)	136	0.0	0.1	0.0	0.0	27.9	0.0	0.0
Triazine herbicide screen, dissolved (µg/L as Atrazine)	3 µg/L as an annual average ^a (MCL)	598	0.1	0.5	0.1	0.1	2.0	0.0	0.0
Alachlor (µg/L)	2 µg/L (MCL) ^a	125	0.0	0.0	0.0	0.0	1.6	0.0	0.0

^a U.S. Environmental Protection Agency (2006)

^b Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

^c For fecal coliform bacteria, the primary contact recreation surface-water criterion of 200 cols/100mL was used from April 1 - October 31 (when most water-contact recreation occurs); from November 1 - March 31, the criterion of 2,358 cols/100mL was used.

^d Kansas Department of Health and Environment (2001)

^e For *Escherichia coli*, the primary contact recreation surface-water quality criterion of 262 cols/100mL was used from April 1 - October 31 for Class B (public access) stream segments; from November 1 - March 31, the criterion of 2,358 cols/100mL was used.

^f Kansas Department of Health and Environment (2004)